

CLAIMS

- 1 . An indoor unit (2) of an air conditioner (1), comprising:
a ventilation fan (71);
5 a heat exchanger (50) having an approximate inverted V-shape in cross-section, lines (51) in which refrigerant flows that are connected thereto, and which is disposed so as to cover the upper portion of the ventilation fan (71); and
a support unit (70) that supports the ventilation fan (71);
wherein each portion of the support unit (70) is positioned at a height of
10 an apex of the ventilation fan (71) or lower.
- 2 . The indoor unit (2) of the air conditioner (1) disclosed in claim 1, wherein the heat exchanger (50) is disposed so as to cover front, upper and rear portions of the ventilation fan (71).
- 15 3 . The indoor unit (2) of the air conditioner (1) disclosed in claims 1 or 2, wherein the heat exchanger (50) is installed on the support unit (70) on which the ventilation fan (71) has already been installed.
- 20 4 . The indoor unit (2) of the air conditioner (1) disclosed in claim 3, further comprising:
an electrical component box (73) that accommodates electrical components, and which is supported by the support unit (70) so as to be at the height of the apex of the ventilation fan (71) or lower; and
25 wherein the electrical component box (73) is installed on the support unit (70).
- 5 . The indoor unit (2) of the air conditioner (1) disclosed in claim 4,

wherein

the ventilation fan (71) has a cylindrical shape, and is disposed so that a central axis thereof is horizontal; and

the indoor unit (2) further comprises a drive device (72) that rotatably drives the ventilation fan (71), and is disposed on the same axis as the ventilation fan (71);

wherein the electrical component box (73) is disposed so that strong electrical components (732) from amongst the electrical components are lined up in the axial direction with the drive device (72).

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6. The indoor unit (2) of the air conditioner (1) disclosed in claim 4, further comprising:

a drive device (72) that rotatably drives the ventilation fan (71);

wherein the support unit (70) supports the ventilation fan (71), the electrical component box (73), and the drive device (72) from below when viewed from the front of the support unit (70), and the lower surface of the support unit (70) is formed to be flat.

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7. A method of assembling an indoor unit (2) of an air conditioner (1), comprising:

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a first step (S1) in which a ventilation fan (71) is installed on a support unit (70) in which each portion of the support unit (70) are positioned at a height of an apex of the ventilation fan (71) or lower when the ventilation fan (71) is supported thereon;

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after the first step (S1), a second step (S2) in which a heat exchanger (50) connected to lines (51) in which refrigerant flows is installed so as to cover an upper portion of the ventilation fan (71); and

after the second step (S2), a third step (S4) in which a back surface

member (8) that covers a back surface of the heat exchanger (50) and forms a back surface side air flow path is installed.